

**United States Environmental Protection Agency  
Region V  
POLLUTION REPORT**

EPA Region 5 Records Ctr.



301597

**Date:** Monday, May 12, 2008

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**Subject:** Peoples Gas Pitney Court Station Site  
3052 Pitney Court, Chicago, IL  
Latitude: 41.8375  
Longitude: -87.6625

<b>POLREP No.:</b>	15	<b>Site #:</b>	B5HP
<b>Reporting Period:</b>	3/24/08 to 4/27/08	<b>D.O. #:</b>	Not Applicable
<b>Start Date:</b>	6/18/2007	<b>Response Authority:</b>	CERCLA
<b>Mob Date:</b>	6/18/2007	<b>Response Type:</b>	Time-Critical
<b>Completion Date:</b>		<b>NPL Status:</b>	Non NPL
<b>CERCLIS ID #:</b>	ILN000510196	<b>Incident Category:</b>	Removal Action
<b>RCRIS ID #:</b>		<b>Contract #</b>	EP-S5-06-04

**Site Description**

The Pitney Court Station Site (Site) is located at 3052 Pitney Court, Chicago, Cook County, Illinois, in a mixed residential, commercial, and industrial area. The site is approximately 4.8 acres and is bordered to the northwest by Archer Avenue, to the northeast by Pitney Court and 31st Street, to the east by Benson Street, to the south by Chicago Plating Inc., a chrome plating facility, and to the west by the South Fork of the South Branch of the Chicago River.

The Site is a former manufactured gas plant (MGP) that operated as an MGP facility from approximately 1897 to 1921. The Universal Gas Company (Universal) began MGP operations at the Site in 1897. Peoples Gas leased the facility from Universal in 1907 and then purchased Universal in 1914. Production operations ceased at the Site in 1921, and the facility was dismantled in 1938. Peoples Gas sold the property in 1952 and re-purchased it in July 2005. Peoples Gas currently owns the Site, which is planned for residential development.

Numerous investigations were conducted by a number of parties from 1990 to 2000. Peoples Gas conducted investigations from approximately 2002 to 2006. Coal tar, staining, and sheen were observed at depths below the water level in soil borings and test pits. Arsenic,

lead, benzene, ethylbenzene, toluene, and polynuclear aromatic hydrocarbons (PAH) were detected at concentrations exceeding Illinois TACO Tier I screening levels in soil samples. Volatile organic compounds (VOC), semivolatile organic compounds (SVOC), metals, and cyanide were detected in groundwater samples at the site. Sediment samples collected in the South Fork of the South Branch of the Chicago River contained PAHs and other SVOCs, VOCs, PCBs, oil and grease, and metals; two of these sediment samples contained oily sheens.

Remediation activities, consisting of excavation and disposal of contaminated soils, were begun by Peoples Gas in September 2005 under the Illinois Environmental Protection Agency (IEPA) Site Remediation Program. Peoples Gas is the potentially responsible party (PRP). Remediation was suspended temporarily in December 2005 and resumed in September 2006. The PRP contractor remediating the Site is Burns & McDonnell Engineering Company, Inc. (BMcD), along with their subcontractors.

Site activities by the PRP include excavation to depths ranging from approximately 3 feet to 20 feet below ground surface (bgs). Other site activities include daily air monitoring, continuous 24-hour perimeter air monitoring and sampling, confirmation soil sampling, and water disposal.

Prior to the U.S. EPA oversight at the Site, BMcD completed excavation of impacted material in approximately 99 cells of 151 excavation cells (see BMcD map of excavation areas under "documents" on the OSC website). An Administrative Order on Consent was signed by Peoples Gas in early June 2007, prompting the U.S. Environmental Protection Agency (U.S. EPA) to begin PRP oversight activities at the Site.

On June 12, 2007, a kick-off meeting was held at the 22nd Street Site between U.S. EPA, START, Peoples Gas, and BMcD, to discuss future oversight activities, documents required, and logistics for transmitting data and documents. The meeting addressed three MGP sites that U.S. EPA would be overseeing that are located within one mile of each other: 22nd Street Station, Hough Place, and Pitney Court. Note that one START member is to cover oversight of these three sites and will rotate to a different site each day. Both Hough Place and Pitney Court remediations are expected to be completed by mid 2008, while the 22nd Street Station Site remediation is expected to be completed by the end of early 2009.

On June 18, 2007, U.S. EPA began PRP oversight activities at the three Peoples Gas MGP sites: Hough Place Station, Pitney Court Station, and 22nd Street Station. The U.S. EPA Superfund Technical and Response Team (START) contractor is performing PRP oversight during the removal activities at the sites. As part of the removal activities, START collects or observes the collection of confirmation samples of soil to confirm that the PRP cleanup objectives are being met. Samples are being collected to identify the potential presence of the following site contaminants of concern:

- ☐ BTEX;
- ☐ PAHs;
- ☐ Synthetic precipitation leaching procedure (SPLP) lead, chromium, and selenium

- ☐ 2-methynaphthalene and carbazole (SVOCs).

Cleanup objectives for the Pitney Court Station Site are as follows:

1. For the 0 to 7 foot depth interval, removal of all soil that exceeds IEPA TACO Tier 1 residential standards for soil ingestion and inhalation.
2. For the 7 to 10 foot depth interval, removal of all soil that exceeds IEPA TACO Tier 1 and Tier 3 (using Chicago background levels for select polynuclear aromatic hydrocarbons) residential standards for soil ingestion and inhalation.
3. For soil deeper than 10 feet bgs, removal of all soil that exceeds IEPA TACO Tier 1 and Tier 3 residential standards for soil ingestion, and use the 10 foot overburden as an engineered barrier, if necessary, to prevent exposure via inhalation.
4. Invoke a construction worker notice and the City of Chicago Ordinance prohibiting installation to potable wells on the Site to eliminate the construction worker and groundwater exposure pathways. The groundwater exposure pathway will also be eliminated by analyzing select confirmation soil samples for SPLP metals.

### **Current Activities**

During the reporting period, the PRP performed excavations in cells 030, 024, 036, 044, 060, 066, 138 and 043(see BMcD map of excavation areas under ☐documents☐ on the OSC website). The PRP took confirmation soil samples from cells 024, 030, 036, 043, and 044.

The PRP subcontractor Bluegrass completed the concrete foundation demolition along the river bank bordering the west side of the site, using the expandable grout method. The PRP also began pouring a slurry mix into cells 024, 030 and 036, along the river bank, to seal the river wall.

A summary of the activities performed during the reporting period by BMcD at the Site are as follows:

- ☐ Transported 423 loads of soil/ debris to CID Landfill in Calumet City, Illinois
- ☐ Transported 53 loads of water for disposal at CID or Ortek facilities
- ☐ Transported 72 loads of concrete debris for disposal at Countryside Landfill
- ☐ Performed perimeter air sampling and air monitoring on a continuous basis (24-hour air samples and air monitoring is conducted around the perimeter. On March 25-26, and April 3-4, 7-11, 15-18, 21, 23-24, 2008, elevated levels of dust in air were detected: site activities were slowed or dust control measures were used. On April 2, 3 and 7, elevated levels of benzene in air were detected due to equipment exhaust: the air re-sample was below action levels.
- ☐ Performed health and safety air monitoring during site activities
- ☐ Backfilled completed excavation areas
- ☐ Performed daily de-watering activities in excavation area, as needed, with offsite disposal of water
- ☐ Collected confirmation soil samples from the floors of excavation cell 024, 030, 036, 043, and 044

On April 8, 2008, BMcD collected one soil sample from the floor of excavation cell 024. The sample was analyzed for BTEX and PAHs. The sample results met the remediation objectives as stated in the Remedial Action Plan (RAP).

On April 9, 2008, BMcD collected one soil sample from the floor of excavation cell 030. The sample was analyzed for BTEX and PAHs. The sample results met the remediation objectives as stated in the RAP.

On April 17, 2008, BMcD collected one soil sample from the floor of excavation cell 036. The sample was analyzed for BTEX, PAHs and SPLP metals. The sample results met the remediation objectives as stated in the RAP.

On April 22, 2008, BMcD collected one soil sample from the floor of excavation cell 043. The sample was analyzed for BTEX and PAHs. The sample results met the remediation objectives as stated in the RAP.

On April 25, 2008, BMcD collected one soil sample from the floor of excavation cell 044. The sample was analyzed for BTEX and PAHs. The sample results met the remediation objectives as stated in the RAP.

Analytical results for previous sampling events were received and evaluated by START.

On March 19, 2008, BMcD collected one soil sample each from the floor of excavation cells 110 and 110/124 and the north wall and south wall of cell 110/124. Sample area 110/124 was designated for the area between cells 110 and 124 where process pipe was found and removed, and the area was re-excavated and re-sampled. The sample results met the remediation objectives as stated in the RAP.

On March 20, 2008, BMcD collected one soil sample each from the floors of excavation cells 082 and 124. Cell 082 was re-excavated (final depth 11 ft bgs) and re-sampled. The sample results met the remediation objectives as stated in the RAP.

On March 21, 2008, BMcD collected one soil sample from the floor of excavation cell 138. The sample results met the remediation objectives as stated in the RAP.

### **Planned Removal Actions**

Planned removal actions at the Pitney Court Station Site are as follows:

- ☐ Excavate soil per the RAP
- ☐ Transport excavated soil to CID Landfill for disposal
- ☐ De-water excavation areas as needed
- ☐ Transport water from excavation areas to disposal facility
- ☐ Backfill completed excavation areas

### **Next Steps**

The next steps to be carried out by the PRP are as follows:

- ☐ Complete excavation of the perimeter of cells along the river bank; including disposal of soil
- ☐ De-water excavation areas if required
- ☐ Transport water from excavation areas to disposal facility if required
- ☐ Continue 24-hour perimeter air monitoring and sampling
- ☐ Continue air monitoring in work zones
- ☐ Collect confirmation samples of completed excavation cells
- ☐ Backfill completed excavation cells with clean fill when confirmation results are received
- ☐ Final grading
- ☐ Post-closure air sampling

#### Key Issues

None.

#### Estimated Costs \*

	Budgeted	Total To Date	Remaining	% Remaining
<b>Extramural Costs</b>				
RST/START	\$89,000.00	\$51,898.00	\$37,102.00	41.69%
<b>Intramural Costs</b>				
<b>Total Site Costs</b>	<b>\$89,000.00</b>	<b>\$51,898.00</b>	<b>\$37,102.00</b>	<b>41.69%</b>

\* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

#### Disposition of Wastes

Waste Stream	Quantity	Manifest #	Disposal Facility
Non-hazardous Soil - November 2007	3,570 yd3		CID RDF, Calumet City, IL
Non-hazardous Soil - December 2007	3,045 yd3		CID RDF, Calumet

			City, IL
Non-hazardous Soil - January 2008	10,140 yd3		CID RDF, Calumet City, IL
Non-hazardous Contaminated Water - January 2008	56,000 gallons		Ortek, Inc., McCook, IL
Non-hazardous Contaminated Water - January 2008	45,400 gallons		CID RDF, Calumet City, IL
Non-hazardous Soil - February 2008	4,530 yd3		CID RDF, Calumet City, IL
Non-hazardous Contaminated Water - February 2008	97,300 gallons		Ortek, Inc., McCook, IL
Non-hazardous Contaminated Water - February 2008	100,400 gallons		CID RDF, Calumet City, IL

[www.epaossc.net/PitneyCourt](http://www.epaossc.net/PitneyCourt)